

The thermodynamics of molecular recognition in supramolecular systems based on calyxarenes

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Abstract

The publications of the authors concerned with seeking simple structure-property relations for the thermodynamic parameters of intermolecular interactions in solid guest-host inclusion compounds with the participation of three receptors, namely, tert-butylcalyx[4]arene, tert-butylthiocalyx[4]arene, and 2,2'-bis(9-hydroxy-9-fluorenyl)biphenyl, are briefly reviewed. Rules determining structure-property correlations can exist for guest-host inclusion compounds. Generally, the correlations obtained are nonlinear.
